Ham-Digital Digest   Fri, 14 Oct 94   Volume 94 : Issue 340

Today's Topics:
                      3rd Party agreements
                    Baycom 1.6 English vs ?
                         BAYCOM V.1.6
                FAQ? Internet-to-packet gateway
                    Interflex Plocy Change
                       Kenwood Tm-733
                 More operating system hitory
           Packet <-> Internet gateway software (2 msgs)
                  Packet Computer (Terminal)
                 Send .COM files over e-mail
                      tcp/ip on packet
                        THENET X1J2
                  THENET X1J for AEA PK-80??
                       What is packet?

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 13 Oct 94 22:34:12 GMT
From: freemanr@dstos3.dsto.GOV.AU (Roy Freeman)
Subject: 3rd Party agreements

Is there a List of the "third party agreements with the US" for use of the
Internet/Packet gateway.
Countries of particular interest are:

UK

Australia
Germany

yours aye Roy

Date: 13 Oct 1994 11:41:14 +0100
From: ljv92@ecs.soton.ac.uk (L J Volante)
Subject: Baycom 1.6 English vs ?

In <370d9r$5e@push.stack.serpukhov.su> victor@stack.serpukhov.su (Victor Voronkov)
writes:

>Hello ALL

>I have heard about new 1.6 vs of Baycom program. Where I can find English
>vs with English manual ?   TNX, 73!   RX3DIN   Victor

I've been reading a few bulletins in the UK and apparently the Baycom
team have gone commercial and are not letting the program circulate
and then asking for donations from the people who like it and use it.

So getting hold of the manual and program could prove expensive (?)
and users of previous versions won't be getting a discount

The only place to get hold of it will probably be from the team direct
in Germany (sorry - I forget the address) as it's not likely to
surface on any of the popular FTP sites.

Please correct me if I am wrong!

Lee G0MTN

Date: Thu, 13 Oct 1994 16:02:06 GMT
From: etjfonte@ci.ua.pt (Jose Miguel Fonte)
Subject: BAYCOM V.1.6

     Can anyone tell me where can I get the new BAYCOM version
     1.6 ?
     TNX in advance ..
     73's to all

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|----------------------------------------------------------------------|
| Jose' Miguel M.B.Fonte        | Aveiro University - PORTUGAL - EUROPE  |
| Box 108 - 4801 Guimaraes - PT. | Electronics and Telecomunications Dept. |
| E-mail : etjfonte@ci.ua.pt    |---|------------------------------------|
| PACKET : CT1ENQ@CT1EDY.CTAV.PRT.EU |  Ham:CT1ENQ - Univer.Club: CT6ARU   |
|----------------------------------|------------------------------------|
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Date: 12 Oct 1994 13:33:33 GMT
From: ns@laban.uu.se
Subject: FAQ? Internet-to-packet gateway

In article <37fabq$c62@aurora.engr.LaTech.edu>, ramos@engr.latech.edu (Alex Ramos)
writes:
>(If this group has a FAQ, this question is probably there. But I
>have not seen one)
>
>How can I send e-mail to a friend of mine who is on the packet-radio
>network? I have his call sign as well as the call sign for the station
>from which he retrieves his messages.
>
>Also he'd like to send mail from the packet to the internet; is this
>easily done in the U.S.? (I know packet-internet gateways in other
>countries - my father uses one).
>
>Thanks
>
>73, KB5QEX
>

  Is this possible in Europe/Scandinavia?

  73 de SM5RIH
  Nils

Date: 13 Oct 1994 14:55:39 GMT
From: levine@mc.com (Bob Levine)
Subject: Interflex Plocy Change

For all you PkGold users, I just learned this week that
Interflex has discontinued their bbs upgrade policy. This
was very handy for me to get the latest point fixes,
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especially with all the Pk900 issues that were resolved.

Now they want $15 for a floppy upgrade for the point
bug fix releases (plus tax if you are lucky enough to
live in CA).  Call them and register your dislike of
the new policy.  Maybe they'll change back.

The product is great, the people there are very receptive
to suggestions, and the service is exceptional. Unfortunately
they have taken a step backwards with the new policy.


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-----------------------------------------------------------------
Bob Levine  KD1GG 7J1AIS VK2GYN                    formerly KA1JFP
levine@mc.com   <--Internet email    Phone(508) 256-1300 x247
kd1gg@wa1phy.ma <--Packet Mail         FAX(508) 256-3599
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Thanks for the many replies about the TM-733.

Somebody asked if I turned on the "9600 baud" feature. Yes, I did of
course.

The two main problems with the '733 are related to the TX:

o) a very long switching time between TX/RX (so you must use TXDelay 30
   or longer, both with AX-25 and JNOS)

o) it is impossible to find a dip-switch setting on the TNC to have a
   good shape of the 9600 baud pulses transmitted by the TM-733. The
   transmitted eye-pattern is really poor.

If you take a look at the diagrams of the '733 you can see that the signal
to be trasmitted (entering the DATA socket) passes so many stages, the
same path as the mic-signal does. Until now all the equipment I modified
for 9600 baud, must have the TX-data signal connected directly to the PLL
varicap or it won't work at all. Instead, on the 733 there's a specialised
IC where the modulation/data enters the same pin. This will surely work
for 1200, but *not* for 9600 !

I have no problems at all on the RX side, although I didn't check with
the satellites but only on terrestrial TCP/IP (JNOS) and AX-25.

The rest of the radio works well.

I'll try to return the equipment back to the dealer...

Thanks for the attention.

73's, Giovanni IT9XXS.

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Date: 13 Oct 1994 21:05:31 GMT
From: waf@sunfish.zk3.dec.com (William Freeman USG)
Subject: More operating system hitory

> I remember TECO - it was sort of like AWK only even more cryptic, wasn't it?

    What?  You prefer typing more than one or two characters for
each of your editor commands?  Try writing down the keystrokes that
you use in whatever (god-forsaken) editor you use and see if it's more
or less cryptic than TECO.

    Ah, all these youngsters, thinking that TECO goes all the way
back to the PDP-11 (Hint: The TX-0 was a one of a kind machine which
contributed lots of inspiration to the PDP-1 (no, I didn't forget the
second "1"), and it had TECO (in an early form)), and who think that
multics was an early (or even good for its time) operating system.
These whipper-snappers have no sense of history.

    Actually, I must confess that I mostly use GNU-EMACS these
days.  (In fact, it's my mail utility, my news reader, my man page
reader, etc.)  But when ever I have to do a non-trivial editing macro,
I type control-Z at it, a "*" prompt appears in the mini-buffer, and I
type TECO.  (I don't think that FSF is distributing it, but the TECO
package for GNU-EMACS is available.)

    Bill
--
Bill Freeman, waf@zk3.dec.com, KE1G, PP-SMEL-IA(ME VFR only) N4365Z
USABDA, MassABDA (novice modern), NMRA, rounds, squares, bad jokes.
Telemarketing: Do more than just say no, write saying you seek other vendors.

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Date: Thu, 13 Oct 1994 02:18:12 GMT

From: barnaby@world.std.com (Richard L Barnaby)
Subject: Packet <-> Internet gateway software

john@intec.manawatu.gen.nz (John Poulsen) writes:

>Thanks for reading this
>I am looking for Packet to Internet gateway software suitable for use
>with FBB 5.15c. I beleive that there may be a server available for
>this task but I haven't come across it yet. If anyone can help
>please email me at the above address or via Packet radio.
>Cheers
>John ZL2TCA @ ZL2TCA.#56.NZL.OC

Please followon post to this group
barnaby@world.std.com

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Date: Wed, 12 Oct 94 21:27:08 +1200
From: john@intec.manawatu.gen.nz (John Poulsen)
Subject: Packet <-> Internet gateway software

Thanks for reading this
I am looking for Packet to Internet gateway software suitable for use
with FBB 5.15c. I beleive that there may be a server available for
this task but I haven't come across it yet. If anyone can help
please email me at the above address or via Packet radio.
Cheers
John ZL2TCA @ ZL2TCA.#56.NZL.OC

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Date: Thu, 13 Oct 1994 20:44:41 GMT
From: donh@cup.hp.com (Don Hay)
Subject: Packet Computer (Terminal)

Well, this is going to age me but here goes.............

I have TWO Heathkit H-89 (factory built by Heathkit).  The H-89 is
a Z80 based computer integrated into a 25 line (addressable) terminal.
These computers would make ideal dedicated Packet hosts.  I have
all kinds of software for this system as well as the Disk Operating
System.  The H-89 comes with a 'built-in' floppy, no hard disk.  This
system is about 1980 vintage.  I WILL purge these from my home inventory!
It will happen soon!  I don't want to dump these, but.............

If any interest, lets see if we can swing a deal.

Don    WB6LPJ
donh@cup.hp.com     408-447-5017
Cupertino, Calif.

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Date: 14 Oct 94 01:13:48 GMT
From: byon@quicksilver.COM (Byon Garrabrant)
Subject: Send .COM files over e-mail

Send .COM files over e-mail and packet

  I have just written a program which allows the transmission of any
.COM file (less than 40K) over a text based medium, like electronic
mail, or packet radio.  The recipient does not need to do any decoding
of the text file; simply save it and run it.  Text-based mediums such
as e-mail and packet these do not allow characters which come before
space (' ', 32 decimal) or after the tilde ('~', 126 decimal), which
therefore removes 160 of the 256 bytes possible for use by a .COM
file.  This problem is usually overcome by uuencoding the .COM, which
translates and expands any file to a text-transmittable version.
However, if the destination does not have a uudecoder, the file
cannot be converted back to the original form.  My solution is a five
line text based uudecoder and executor, which can be placed at the
beginning of any uuencoded .COM file.  The resulting file can be sent
over a text based medium, clipped out and saved to a file, and
executed like any other .COM file.  The recipient never needs to
uudecode it, or even understand what uudecoding is.

   To do this, take any 40K or smaller .COM file, and uuencode it
with any uuencode program (see below).  Then copy the resulting .UUE
file over the original .COM file (you may want to back it up first)
and load it into any text editor or word processor.  Remove the first
line, which should start with the word 'begin', and replace it with
my five lines of text-based code.  You can also remove the last line,
which should start with the word 'end', but this is not necessary.
The first line of the file should begin with four percent signs (%).
Make sure you save the file as an ASCII or text file, without
formating information.  The resulting .COM file should run the same
as the original, but be about 33% larger and only consist of text
characters.  You can send this file in an e-mail message or a packet
radio text bulletin, along with an explanation to the recipient to
save the file with a .COM extension, remove all lines before my five,
save as text, and run.

   All lines must be terminated with the standard DOS CR/LF bytes.
The resulting size of any program will be about 33% larger (thanks
to the uuencoder) plus 355 bytes on top of that (thanks to my program).

As you can see in my examples, I usually catenate the last line of
the uuencoded file (a single back quote) to the end of the previos
line.  This works just fine.  This program was written from the
ground up using BRIEF, TASM, and DEBUG.

   You are free to use this program, without cost, but if you do,
please send me e-mail and tell me how you are using it.  My primary
goal in writing this program was for the challange and puzzle aspects
of it.  My goal is to make the stub as small as possible.  I
currently have a creditless version which is 253 bytes long.  Anyone
else interested in puzzles of this type can try and figure out how it
works.  Thanks to Alex Pruss, for planting the seed of this
puzzle/program in my mind.  Any comments or questions can be sent to
Byon Garrabrant, byon@quicksilver.com, or KD6BCH@W6KRW.#SOCA.CA.USA.NOAM

73 de KD6BCH, Byon in Orange, CA  (byon@quicksilver.com)

--- HERE IS THE FIVE LINE TEXT BASED DECODER/EXECUTOR  (332 bytes) ---
%%%%PPPZ---555P_W-!{55cP5!!51/,KP^40,'P[PYRX5tt('C('C('C('C('C('C('C('C=
('CC('C('C('C('0'C('C('CC('C('CC('[u"Byon_Garrabrant!DTDTDTDT#7~8RVdXsTu_
KNFCPBKJBMNHKDPILMBAKOPPPAJLBLBPGLOKBDCOGDBLHJMPKAPPJLBLBPMPNPMPNPCL
MCNPHPNAOOGDPIHFNPJJONLJGDMLHFNPEAHPOAPFMCNPEIHPLAPBHPNAPGNKMHKDPAOONP
DCDODDDEEDBPDBGIFOFNBPDGFAGBGBFAFBGBFAFNGDBPDKDDCFDBDCDHPMPJBD
--- HERE IS THE FIVE LINE TEXT BASED DECODER/EXECUTOR ---

HERE IS A SAMPLE PROGRAM TO PUT YOUR VGA DISPLAY INTO 50 LINE MODE

--- CUT HERE AND SAVE AS T50.COM ---
%%%%PPPZ---555P_W-!{55cP5!!51/,KP^40,'P[PYRX5tt('C('C('C('C('C('C('C('C=
('CC('C('C('C('0'C('C('CC('C('CC('[u"Byon_Garrabrant!DTDTDTDT#7~8RVdXsTu_
KNFCPBKJBMNHKDPILMBAKOPPPAJLBLBPGLOKBDCOGDBLHJMPKAPPJLBLBPMPNPMPNPCL
MCNPHPNAOOGDPIHFNPJJONLJGDMLHFNPEAHPOAPFMCNPEIHPLAPBHPNAPGNKMHKDPAOONP
DCDODDDEEDBPDBGIFOFNBPDGFAGBGBFAFBGBFAFNGDBPDKDDCFDBDCDHPMPJBD
IN`,`S1"X`A*S,,T0N!(1LP#-$+@`N([`N:`/L""T'[\``/.KN`!,S2$``
--- CUT HERE AND SAME AS T50.com ---


--- CUT HERE AND SAVE AS TUUENCODE.COM ---
%%%%PPPZ---555P_W-!{55cP5!!51/,KP^40,'P[PYRX5tt('C('C('C('C('C('C('C('C=
('CC('C('C('C('0'C('C('CC('C('CC('[u"Byon_Garrabrant!DTDTDTDT#7~8RVdXsTu_
KNFCPBKJBMNHKDPILMBAKOPPPAJLBLBPGLOKBDCOGDBLHJMPKAPPJLBLBPMPNPMPNPCL
MCNPHPNAOOGDPIHFNPJJONLJGDMLHFNPEAHPOAPFMCNPEIHPLAPBHPNAPGNKMHKDPAOONP
DCDODDDEEDBPDBGIFOFNBPDGFAGBGBFAFBGBFAFNGDBPDKDDCFDBDCDHPMPJBD
MZV20#0I);G!U="!P871H+V9I;&4Z("!);G!U="!F:6QE(&5R<F]R+D]U='!U
M="!F:6QE(&5R<F]R+F`-"F5N9`T*3*3F\@86-T:6]N(&5X:7-T-T<R$@($$%B;;W)T
M:6YG(0```0`N!`````M##-(`((3P"L`1,I/<P280$O$V<P%'3Q,@;2ASN.D8[E_F)Z`C#+H
^H][.K_I#XA#94/P_I$S]]:`:`Z_?`>$8`
MI@&&Z`$*G7:[Y%W`[W$R0LD`@R%0"R`'KP_I$A(?`J+=(#A=I1*]VK<7S;,'-Q
MM:@&&Z`#@@['```````````_/O[.BI@@A@'K@'!8P`G`G&5O.!(@4`L!L@^``
MB&2E0`"E0`4`C[G@P;Q(U@`&8AU0```_~D!W`'[`'5`````Q@=3@;TA3X<UA
MBQA`U`06@$'`W``G@B\`E;"0`':N(!]`B`@'@'#H@%`"``7@(`'@PAP`@@S
MB>8/Q@"E`4!9)I'#U0'BUE'#'^R5G%.BL`\R`N4'@%D@%D!`U@&``;SL`''H@!
MB^:N`#@@['```````````_/K[.BI@(0@'K@'!8P`G`&Y8?[@4@!0"P&R%`@`
M@W%0"R`'KP_I$@(?`IK=(#A=I1*]VK<7S;,'-Q
--- error noise not readable

```
MK`K`=`.JZ_BX#0JK5XORORX$B]>L"L!U`K`NJCPN=?2X=76KN&4`B04SR8`^
M90'_="6T3LTA/`)T'3P2=!E9B\\KRKL"`/+M$#-(;I+`;D3`+`%Z3S_M#S-
M(5ES`^FO`*-@`;J@`RO*Z)0`Z*D`=#NQ!JR*X-#HT.BJK(K0T>C1Z-'HT>BJ
MBN*LBM#3Z*J*PJJ#Q0.#_2UU!>@Y`+$&.S9B`7+.@#YD`0%UP`OM=`DK-F(!
M*^[H'0"Z.@&Y"`#H/@/@"`"F`!M#[-(;;1,S2%0M`G-(5CK])+J@`XO/*I1B_J+
MQQ88%%M""(8#^*!#!CD0O(4!"/BK.H29!'?*))L@-T`!>0H$@`LSE#S'#J&+J+H-ID`DLI"
M[<.Z*`&Y$#@#Q,#'+.6C`+I@@W0@"J_!5HU&T'HJR!@!;E=&
MB/:!;#0S'O'#G9'&5J=ASJ=+^2,=-A&V3;DPVY9,Z%R_F>@N6X*T<;9@R-
MI?6(&3Z&!A5X6+K'G;8;,(`0_C(=T5E.&!O>P@F+I,-;+$G+`[QJJR2_$#N
M`P/P9QM@K8PH;?]\OH][!!0(C9\9X&6W;%4$B+T?PLB1O*FD-;`@0[X;)&D6M:A$!
M_#('&*D&IJD::=!RJIU&$:$!(W8(-O[0C)!F>MVHB>WH"(ED&`#YI"##/%
M(FAVD@$B.4!!BS-;)L"\2]1D)3`3%$B)`!&(%^UK>Q6\S8+[(=P@ML"D2(&.@
M;BY9:I"1P@@`@!G__I`,$>B0_=#1%=P=GJ/1&^TQ6^6Y0Q^P(5`!C&I;#A=6$
M:7T%**%$G.I'P2BX1M=#,(`=CD7K`]C@&:)!O$,!%<@,'&:*B&%@/$Z1%$6*_
M=8]U!-6#`S58$CU88=4;]RR#G@(&JH^A;FRG`L/#P#!>D@8"'8$RH<'4%-%'>P(T(P
MSI!D75!%';E1B'I^?0@F!![_V('K,`-]),A,0%H$8M7!]8&A6PF&G);@H=G3.]
MSM0I**`>/):1+KQ!!FK#M$)S`,(ZN%T6<X?6@/[W+1A5!7_&(-
M=N?;6Z5]"0Y:(,.GE'!_H-1/S$4`(9T*FKX=RS5%V`!)E8$$B.[8U.I;KXN5$H%[A
```
--- CUT HERE AND SAVE AS TUUENCODE.COM ---

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Date: 12 Oct 1994 21:40:52 GMT
From: Joe Showalter <jlshowalter@mmm.com>
Subject: tcp/ip on packet

Hey, what's the story on using tcp/ip on packet? (how's that for a loaded
question?)
I have a chance to set up a gateway onto the internet here, but I need to
gather as much info as posible
to get things rolling in the right direction.
Help help help

Joe Showalter                          EMAIL:   jlshowalter@mmm.com
3M Company
3M Center Bldg. 216-3S-04        My opinions are my own and not
St. Paul, MN 55144-1000              those of 3M Company.

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Date: Thu, 13 Oct 1994 12:59:08 GMT
From: jkbe@sdlena.ucsd.edu (John Bednar)
Subject: THENET X1J2

: Do you mean hear partial packets from anywhere (HTS packets) or packets
: directed at the node?

: Larry

My feeling is anything that would make the DCD LED flicker, thereby
interrupting the processor. It seems that the CPU is interrupted,
buffers are used, but code doesn't know how to clear the "junk"
out of the buffers so they get used up and not cleared. Just my
"gut" feeling.

John WB3ESS

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Date: 13 Oct 94 09:48:02 CST
From: estey@skyler.mavd.honeywell.com
Subject: THENET X1J for AEA PK-80??

A friend asked me to modify his old AEA PK-80 for the latest X1-J EPROM.
Can anyone tell me that this can be done and if so, can you point me to
documentation (magazines or FTP ASCII files)?  He has the older TheNet
EPROM in the PK-80 now.

73
Carl
----------------------------------------------------------------------
Carl Estey                    | Home Mail Address: 276 Walnut Lane
Amateur Callsign:    WA0CQG   |                    Apple Valley, MN 55124
                              | Business Address:  Honeywell Inc.
Phone: Work (612) 954-7630    | Flight Systems & Test Operations M/S MN15-2370
       FAX  (612) 954-7495    | 1625 Zarthan Ave. S., St. Louis Park, MN 55416
       Home (612) 432-0699    | Packet: WA0CQG @ WA0CQG.#MSP.MN.USA.NA
The nonsense here is of my own making - no one else would want credit!

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Date: Thu, 13 Oct 94 01:30:17 -0500
From: Ted Morange <tmorange@delphi.com>
Subject: What is packet?

    I'm a new ham and I have had the curiosity on how packet
works and what do hams do on packet. Tnx, 73

Ted Morange

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Date: Thu, 13 Oct 1994 02:56:20 GMT
From: kd3bj!chris (C. T. Nadovich)

References<CwrnGx.B1s@kd3bj.uucp> <tcjCwzp6B.Irv@netcom.com>,

```
<1994Oct11.235450.12683@ccmail.com>
Subject: Funny uP History

>In article <tcjCwzp6B.Irv@netcom.com>
>tcj@netcom.com (Todd Jonz) writes:

>> Microcomputing history buffs who want a real good laugh...

One of my all time favorites is the pie charts in early Motorola VME
literature that showed the growth of the VME bus and predicted a 60%
market share by 1990.


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73 de KD3BJ (Chris Nadovich, chris@kd3bj.ampr.org)

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End of Ham-Digital Digest V94 #340
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